

Amplifiers: 1 to 1400 MHz PA

Amplifiers: 1 to 1400 MHz PA, N-Connectorized

<u>Model Number</u>	<u>Frequency (Min.)(MHz)</u>	<u>Frequency (Max.)(MHz)</u>	<u>Gain (Typ.) (dB)</u>	<u>Gain Flatness (Typ.) (dB)</u>	<u>VSWR (Typ./Max.)</u>	<u>P1dB (Typ.) (dBm)</u>	<u>IP3 (Typ.) (dBm)</u>	<u>DC Idd (Typ.) (mA)</u>	<u>DC Power (V)</u>	<u>Package</u>
<u>WPA0001P</u>	1	150	17.0	+/-0.2	1.5:1/2:1	+29	+43	220	12.0 - 16.0	IP-2
<u>WPA0006N</u>	20	600	17.0	+/-0.2	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-2
<u>WPA0001N</u>	30	90	17.0	+/-0.2	1.5:1/2:1	+30	+43	220	12.0-16.0	IP-2
<u>WPA0101N</u>	88	110	17.0	+/-0.1	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-2
<u>WPA0102N</u>	135	175	17.0	+/-0.1	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-2
<u>WPA0214N</u>	175	1400	13.5	+/-0.5	1.8:1/2:1	+29	+43	220	12.0 - 16.0	IP-2
<u>WPA0305N</u>	380	530	17.0	+/-0.2	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-2
<u>WPA0409N</u>	470	960	14.0	+/-0.5	1.8:1/2:1	+29	+43	220	12.0 - 16.0	IP-2

Amplifiers: 1 to 1400 MHz PA, SMA-Connectorized

<u>Model Number</u>	<u>Frequency (Min.)(MHz)</u>	<u>Frequency (Max.)(MHz)</u>	<u>Gain (Typ.) (dB)</u>	<u>Gain Flatness (Typ.) (dB)</u>	<u>VSWR (Typ./Max.)</u>	<u>P1dB (Typ.) (dBm)</u>	<u>IP3 (Typ.) (dBm)</u>	<u>DC Idd (Typ.) (mA)</u>	<u>DC Power (V)</u>	<u>Package</u>
<u>WPA0001B</u>	1	150	17.0	+/-0.2	1.5:1/2:1	+29	+43	220	12.0 - 16.0	IP-3
<u>WPA0006A</u>	20	600	17.0	+/-0.2	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-3
<u>WPA0001A</u>	30	90	17.0	+/-0.2	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-3
<u>WPA0101A</u>	88	110	17.0	+/-0.1	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-3
<u>WPA0102A</u>	135	175	17.0	+/-0.1	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-3
<u>WPA0214A</u>	175	1400	13.5	+/-0.5	1.8:1/2:1	+29	+43	220	12.0 - 16.0	IP-3
<u>WPA0305A</u>	380	530	17.0	+/-0.2	1.5:1/2:1	+30	+43	220	12.0 - 16.0	IP-3
<u>WPA0409A</u>	470	960	14.0	+/-0.5	1.8:1/2:1	+29	+43	220	12.0 - 16.0	IP-3

Amplifiers: 1 to 2700 MHz LNA

Amplifiers: 1 to 2700 MHz LNA, N-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	NF (Typ.) (dB)	Gain (Typ.) (dB)	Gain Flatness (Typ.) (dB)	VSWR (Typ./Max.)	P1dB (Typ.) (dBm)	IP3 (Typ.)(dBm)	DC Idd (Typ.) (mA)	DC Power (V)	Package
WLA0005P	1	500	1.0/1.4	20.0	+/-0.5	1.5:1/1.8:1	+10	+20	25	8.0 - 16.0	IP-2
WLA0010N	20	1000	1.0/1.6	20.0	+/-1.0	1.35:1/1.8:1	+10	+25	25	8.0 - 16.0	IP-2
WLA0005N	20	500	1.0/1.4	20.0	+/-1.0	1.5:1/1.8:1	+10	+20	25	8.0 - 16.0	IP-2
WLA0116N	100	1600	1.0/1.4	19.0	+/-1.5	1.5:1/1.8:1	+10	+22	25	8.0 - 16.0	IP-2
WLA0110N	100	1000	0.9/1.3	19.0	+/-1.0	1.35:1/1.5:1	+10	+22	25	8.0 - 16.0	IP-2
WLA0210N	200	1000	0.7/1.0	20.0	+/-1.0	1.35:1/1.5:1	+17	+33	65	8.0 - 16.0	IP-2
WLA0813N	800	1300	1.0/1.4	17.0	+/-1.5	1.35:1/1.5:1	+10	+25	25	8.0 - 16.0	IP-2
WLA1722N	1700	2200	1.0/1.4	15.0	+/-0.5	1.35:1/1.5:1	+13	+27	25	8.0 - 16.0	IP-2

WLA1727N	1700	2700	1.01/1.4	15.0	+/-1.0	1.35:1/1.5:1	+13	+27	25	8.0 - 16.0	IP-S
WLA2227N	2200	2700	1.0/1.4	15.0	+/-0.5	1.35:1/1.5:1	+15	+27	25	8.0 - 16.0	IP-2

Amplifiers: 1 to 2700 MHz LNA, SMA-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	NF (Typ.) (dB)	Gain (Typ.) (dB)	Gain Flatness (Typ.) (dB)	VSWR (Typ./Max.)	P1dB (Typ.) (dBm)	IP3 (Typ.)(dBm)	DC Idd (Typ.) (mA)	DC Power (V)	Package
WLA0005B	1	500	1.0/1.4	20.0	+/-0.5	1.5:1/1.8:1	+10	+20	25	8.0 - 16.0	IP-3
WLA0010A	20	1000	1.0/1.6	20.0	+/-1.0	1.35:1/1.8:1	+10	+25	25	8.0 - 16.0	IP-3
WLA0005A	20	500	1.0/1.4	20.0	+/-1.0	1.5:1/1.8:1	+10	+20	25	8.0 - 16.0	IP-3
WLA0116A	100	1600	1.0/1.4	19.0	+/-1.5	1.5:1/1.8:1	+10	+22	25	8.0 - 16.0	IP-3
WLA0110A	100	1000	0.9/1.3	19.0	+/-1.0	1.35:1/1.5:1	+10	+22	25	8.0 - 16.0	IP-3
WLA0210A	200	1000	0.7/1.0	20.0	+/-1.0	1.35:1/1.5:1	+17	+33	65	8.0 - 16.0	IP-3

WLA0813A	800	1300	1.0/1.4	17.0	+/-1.5	1.35:1/1.5:1	+10	+25	25	8.0 - 16.0	IP-3
WLA1722A	1700	2200	1.0/1.4	15.0	+/-0.5	1.35:1/1.5:1	+13	+27	25	8.0 - 16.0	IP-3
WLA1727A	1700	2700	1.0/1.4	15.0	+/-1.0	1.35:1/1.5:1	+13	+27	25	8.0 - 16.0	IP-3
WLA2227A	2200	2700	1.0/1.4	15.0	+/-0.5	1.35:1/1.5:1	+15	+27	25	8.0 - 16.0	IP-3

Amplifiers: 17 to 25W PA

Amplifiers: 17 to 25W PA, SMA-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	Gain (Typ.)(dB)	Gain Flatness (Typ.)(dB)	VSWR (Typ./Max.)	Psat (Typ.)(W)	DC PAE (Typ.)(%)	DC Idd (Max.)(A)	DC Power (Min./Max.)(V)	Package
WPA0810C	820	960	46	+/-0.5	1.22:1/1.45:1	50	45	5.5	26.0 - 30.0	WP-1M
WPA08-49A	820	890	49	+/-0.3	1.3:1/1.5:1	25	49	3.0	26.0 - 30.0	WP-1M
WPA0810A	820	960	48.5	+/-0.5	1.3:1/1.5:1	24	45	3.0	26.0 - 30.0	WP-1M
WPA08-35B	820	890	34.5	+/-0.3	1.2:1/1.4:1	25	55	2.5	26.0 - 30.0	WP-1M
WPA09-35B	925	960	35	+/-0.25	1.22:1/1.5:1	24	55	2.0	26.0 - 30.0	WP-1M
WPA09-49A	925	960	49	+/-0.2	1.27:1/1.5:1	24	50	2.8	26.0 - 30.0	WP-1M

WPA18-45A	1805	1880	45	+/-0.5	1.27:1/1.5:1	17	44	2.0	26.0 - 30.0	WP-1M
WPA19-43A	1930	1990	43	+/-0.4	1.27:1/1.5:1	17	45	2.0	26.0 - 30.0	WP-1M
WPA21-41A	2110	2170	41.5	+/-0.5	1.22:1/1.5:1	17	41	2.0	26.0 - 30.0	WP-1M

Amplifiers: GPS LNA

Amplifiers: GPS LNA, N-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	NF (Typ.) (dB)	Gain (Typ.) (dB)	Gain Flatness (Typ.) (dB)	VSWR (Typ./Max.)	P1dB (Typ.) (dBm)	IP3 (Typ.)(dBm)	DC Idd (Typ.) (mA)	DC Power (V)	Package
WLA1116N	1100	1650	0.50/0.80	32.0	+/-1.0	1.35:1/1.5:1	+7	+17	20	8.0 - 16.0	IP-2
WLA1216N	1200	1600	0.90/1.2	17.0	+/-0.2	1.35:1/1.6:1	+15	+29	35	8.0 - 16.0	IP-2

Amplifiers: GPS LNA, SMA-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	NF (Typ.) (dB)	Gain (Typ.) (dB)	Gain Flatness (Typ.) (dB)	VSWR (Typ./Max.)	P1dB (Typ.) (dBm)	IP3 (Typ.)(dBm)	DC Idd (Typ.) (mA)	DC Power (V)	Package
WLA1116A	1100	1650	0.50/0.80	32.0	+/-1.0	1.35:1/1.5:1	+7	+17	20	8.0 - 16.0	IP-3

WLA1216A	1200	1600	0.90/1.2	17.0	+/-0.2	1.35:1/1.6:1	+15	+29	35	8.0 - 16.0	IP-3
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Amplifiers: L- and S-Band LNA

Amplifiers: L- and S-Band LNA, N-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	NF (Typ.) (dB)	Gain (Typ.) (dB)	Gain Flatness (Typ.) (dB)	VSWR (Typ./Max.)	P1dB (Typ.) (dBm)	IP3 (Typ.)(dBm)	DC Idd (Typ.) (mA)	DC Power (V)	Package
WLA0030N	20	3000	1.3/1.6	15.0	+/-0.5	1.35:1/1.8:1	+12	+25	25	8.0 - 16.0	IP-2
WLA1020N	1000	2000	1.0/1.3	33.0	+/-1.0	1.35:1/1.5:1	+12	+25	40	8.0 - 16.0	IP-2
WLA1222N	1200	2200	0.9/1.2	17.0	+/-0.5	1.35:1/1.6:1	+15	+29	35	8.0 - 16.0	IP-2

Amplifiers: L- and S-Band LNA, SMA-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	NF (Typ.) (dB)	Gain (Typ.) (dB)	Gain Flatness (Typ.) (dB)	VSWR (Typ./Max.)	P1dB (Typ.) (dBm)	IP3 (Typ.)(dBm)	DC Idd (Typ.) (mA)	DC Power (V)	Package
WLA0030A	20	3000	1.3/1.6	15.0	+/-0.5	1.35:1/1.8:1	+12	+25	25	8.0 - 16.0	IP-3

WLA0545A	500	4000	1.2/1.5	25.0	+/-1.0	1.5:1/1.8:1	+12	+25	65	8.0 - 16.0	IP-3
WLA1020A	1000	2000	1.0/1.3	33.0	+/-1.0	1.35:1/1.5:1	+12	+25	40	8.0 - 16.0	IP-3
WLA1222A	1200	2200	0.9/1.2	17.0	+/-0.5	1.35:1/1.6:1	+15	+29	35	8.0 - 16.0	IP-3
WLA1535A	1500	3200	1.2/1.5	28.0	+/-1.0	1.35:1/1.5:1	+12	+25	55	8.0 - 16.0	IP-3
WLA2040A	2000	4000	1.2/1.5	25.0	+/-1.0	1.5:1/1.8:1	+12	+25	55	8.0 - 16.0	IP-3
WLA3035A	3000	3500	1.2/1.5	25.0	+/-0.5	1.35:1/1.5:1	+12	+25	55	8.0 - 16.0	IP-3

Amplifiers: LTE LNA

Amplifiers: LTE LNA, N-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	NF (Typ.) (dB)	Gain (Typ.) (dB)	Gain Flatness (Typ.) (dB)	VSWR (Typ./Max.)	P1dB (Typ.) (dBm)	IP3 (Typ.)(dBm)	DC Idd (Typ.) (mA)	DC Power (V)	Package
WLA0527N	500	2700	1.0/1.4	15.0	+/-0.5	1.35:1/1.5:1	+10	+20	20	8.0 - 16.0	IP-2
WLA0627N	600	2700	1.0/1.4	30.0	+/-1.5	1.35:1/1.5:1	+12	+25	50	8.0 - 16.0	IP-2

Amplifiers: LTE LNA, SMA-Connectorized

Model Number	Frequency (Min.)(MHz)	Frequency (Max.)(MHz)	NF (Typ.) (dB)	Gain (Typ.) (dB)	Gain Flatness (Typ.) (dB)	VSWR (Typ./Max.)	P1dB (Typ.) (dBm)	IP3 (Typ.)(dBm)	DC Idd (Typ.) (mA)	DC Power (V)	Package
WLA0527A	500	2700	1.0/1.4	15.0	+/-0.5	1.35:1/1.5:1	+10	+20	20	8.0 - 16.0	IP-3
WLA0627A	600	2700	1.0/1.4	30.0	+/-1.5	1.35:1/1.5:1	+12	+25	50	8.0 - 16.0	IP-3

Attenuators

Attenuators: SMA Connectorized

Model Number	Frequency (Min.) (MHz)	Frequency (Max.) (MHz)	Attenuation (dB)	Attenuation Variation (dB)	RF CW Handling (W)	VSWR (Typ.)	Package
WAT06E	DC	6000	30.0	+/-1.0	20.0	1.2:1	IP-11
WAT06F	DC	6000	6.0	+/-1.0	20.0	1.2:1	IP-11
WAT06D	DC	6000	20.0	+/-1.0	20.0	1.2:1	IP-11
WAT06C	DC	6000	15.0	+/-1.0	20.0	1.2:1	IP-11
WAT06B	DC	6000	10.0	+/-1.0	20.0	1.2:1	IP-11
WAT06A	DC	6000	3.5	+/-1.0	20.0	1.2:1	IP-11

Bias-Ts

Bias-Ts: N-Connectorized

Model Number	Frequency (Min.) (MHz)	Frequency (Max.) (MHz)	DC Current (Max.) (mA)	Insertion Loss (Typ.) (dB)	Isolation (RF Port to DC Port) (dB)	DC Voltage (Max.) (V)	RF CW Power (Max.) (W)	VSWR (Typ.)	Package
WBT0030N	10	3000	3000	0.3	45	50	30	1.22:1	IP-2
WBT0040N	15	4200	600	0.3	45	50	20	1.2:1	IP-2

Bias-Ts: SMA Connectorized

Model Number	Frequency (Min.) (MHz)	Frequency (Max.) (MHz)	DC Current (Max.) (mA)	Insertion Loss (Typ.) (dB)	Isolation (RF Port to DC Port) (dB)	DC Voltage (Max.) (V)	RF CW Power (Max.) (W)	VSWR (Typ.)	Package
WBT0030A	10	3000	3000	0.3	45	50	30	1.22:1	IP-3
WBT0040A	15	4500	600	0.2	45	50	20	1.2:1	IP-3
WBT000200A	20	20000	220	0.5	40	16	2	1.22:1	0.7
WBT000180A	20	18000	220	0.5	40	16	2	1.22:1	0.7
WBT0060A	20	6000	350	0.3	45	50	10	1.22:1	IP-3
WBT000120A	20	13800	220	0.3	40	50	2	1.22:1	0.7

Couplers

Couplers: SMA Connectorized

<u>Model Number</u>	<u>No. of Ways</u>	<u>Frequency (MHz)(Min.)</u>	<u>Frequency (MHz)(Max.)</u>	<u>Insertion Loss (Typ./ Max.) (+/- dB)</u>	<u>Phase Unbalance (Typ./Max.) (Degree)</u>	<u>Amplitude Unbalance (Typ./Max.) (dB)</u>	<u>VSWR (Typ./Max.)</u>	<u>PWR Rating (W)</u>	<u>Isolation (dB)</u>	<u>Package</u>
WHC2023A	2	2000	2300	0.25/0.5	0.3/3.0	-/1.0	1.22:1/1.3:1	10	23	IP-1
WHC2040A	2	2000	4000	0.5/1.2	0.5/5.0	-/1.3	1.22:1/1.5:1	10	20	IP-1
WHC2129A	2	2100	2900	0.3/0.7	0.5/4.0	-/1.0	1.22:1/1.5:1	10	23	IP-1
WHC2327A	2	2300	2700	0.25/0.6	0.5/4.0	-/1.0	1.22:1/1.5:1	10	23	IP-1
WHC1920A	2	1930	1980	0.25/0.5	0.3/3.0	-/1.0	1.22:1/1.5:1	10	23	IP-1
WHC1720A	2	1700	2000	0.5/1.0	0.5/4.0	0.4/0.8	1.22:1/1.5:1	10	20	IP-1
WHC0510A	2	470	930	0.5/1.1	0.5/5.0	0.4/0.8	1.22:1/1.5:1	10	20	IP-1
WHC0727A	2	700	2700	0.5/1.3	0.5/5.0	0.2/0.8	1.22:1/1.5:1	10	20	IP-1
WHC0810A	2	820	960	0.2/0.5	0.3/3.0	0.2/0.5	1.22:1/1.5:1	10	30	IP-1
WHC1219A	2	1200	1850	0.5/1.0	0.5/4.0	0.4/0.8	1.22:1/1.5:1	10	20	IP-1
WHC0405A	2	380	520	0.2/0.7	0.5/5.0	0.2/0.8	1.22:1/1.5:1	10	20	IP-1

DC Blocks

DC Blocks

Model Number	Frequency (Min.) (GHz)	Frequency (Max.) (GHz)	Insertion Loss (dB)	RF CW Handling (W)	VSWR (Typ.)	Voltage (Max.)(V)	Package
WDCB00250A	0.01	25	0.5	2.0	1.25:1	16	0.7
WDCB00180A	0.01	18	0.3	2.0	1.25:1	16	0.7
WDCB0040A	0.01	4	0.2	20.0	1.22:1	50	0.7

SMA Connectors & Cables

SMA Connectors & Cables

Model Number	Frequency (Min.) (GHz)	Frequency (Max.) (GHz)	Insertion Loss (dB)	RF CW Handling (W)	VSWR (Typ.)	Package
WSMA02A, Super SMA	DC	27	0.1	50.0	1.22:1	SMA M
WSMA01A, Super SMA	DC	27	0.1	50.0	1.22:1	SMA F
WCBL02A	DC	18	0.8	50.0	1.22:1	12-inch, SMA M to SMA M
WCBL01A	DC	18	0.5	50.0	1.22:1	6-inch, SMA M to SMA M

Splitters & Combiners

Splitters & Combiners, SMA-Connectorized

<u>Model Number</u>	<u>No. of Ways</u>	<u>Frequency (MHz)(Min.)</u>	<u>Frequency (MHz)(Max.)</u>	<u>Insertion Loss (Typ./ Max.) (+/- dB)</u>	<u>Phase Unbalance (Typ./Max.) (Degree)</u>	<u>Amplitude Unbalance (Typ./Max.) (dB)</u>	<u>VSWR (Typ./Max.)</u>	<u>PWR Rating (W)</u>	<u>Isolation (dB)</u>	<u>Package</u>
WPD1040A	2	1000	4000	0.50/1.20	1.0/5.0	0.2/1.00	1.22:1/1.5:1	0.1	18	IP-1
WPD0727A	2	700	2700	0.50/1.20	1.0/5.0	0.2/1.00	1.22:1/1.5:1	0.1	18	IP-1
WPD0010A	2	10	1000	0.50/1.20	1.0/5.0	0.2/1.00	1.22:1/1.5:1	0.1	20	IP-1

Switches

Switches: SMA Connectorized

<u>Model Number</u>	<u>Frequency (Min.) (GHz)</u>	<u>Frequency (Max.) (GHz)</u>	<u>Insertion Loss (dB)</u>	<u>Isolation (dB)</u>	<u>RF CW Handling (W)</u>	<u>VSWR (Typ.)</u>	<u>Package</u>
WSW0127A	100	2700	0.5	18	10.0	1.25:1	1.1
WSW10180A	1000	20000	1.5	35	1.0	1.5:1	0.7

Terminators & Loads

Terminators & Loads: SMA Connectorized

Model Number	SMA Type	Frequency (Min.) (GHz)	Frequency (Max.) (GHz)	RF CW Handling (W)	VSWR (Typ.)	Package
WLD000130A1	SMA Female	DC	13000	20.0	1.20:1	0.7
WLD0060A1	SMA Female	DC	6000	20.0	1.20:1	0.7
WLD000130A2	SMA Male	DC	13000	20.0	1.20:1	0.7
WLD0060A2	SMA Male	DC	6000	20.0	1.20:1	0.7

